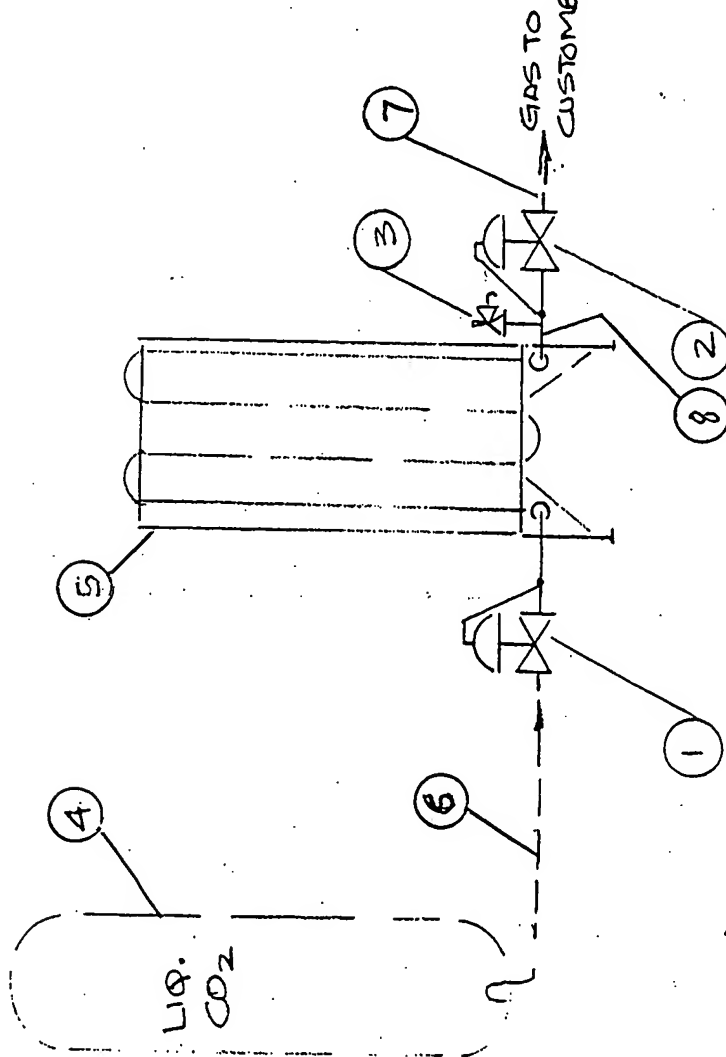


Drug. Sheet 1  
(557-1P)



- 1 LIQUID CO<sub>2</sub> DOWNSTREAM PRESS. REDUCING REGULATOR TO REDUCE LIQUID FEED PRESSURE TO VAPORIZER TO ALLOW LOWER VAPORIZATION TEMP. (SET BETWEEN 90PSIG MIN TO 250PSIG PER CHART 1, BULL 3.9A.)
- 2 VAPORIZER BACK PRESSURE REGULATOR TO MAINTAIN PRESSURE IN THE VAPORIZER ABOVE THE TRIPLE POINT / FREEZE POINT SET MIN ABOUT 90PSIG (-55°F)  
NOTE: TRIPLE POINT IS -69.9°F AND -75.10 PSIA.
- 3 VAPORIZER RELIEF VALVE (SET 75 PSIG MIN AND BE ABOVE CUSTOMER LINE PRESS.)

## VALVE KIT COMPONENTS

**BEST AVAILABLE COPY**

THERMAX PRESS-TROL  
 CO<sub>2</sub> LIQUID PRESS REDUCTION  
 WITH ANTI-FREEZE-UP TRIPLE-  
 POINT PROTECTION BACKPRESS REG.



**THERMAX INC.**  
**SO. DARTMOUTH, MASS.**

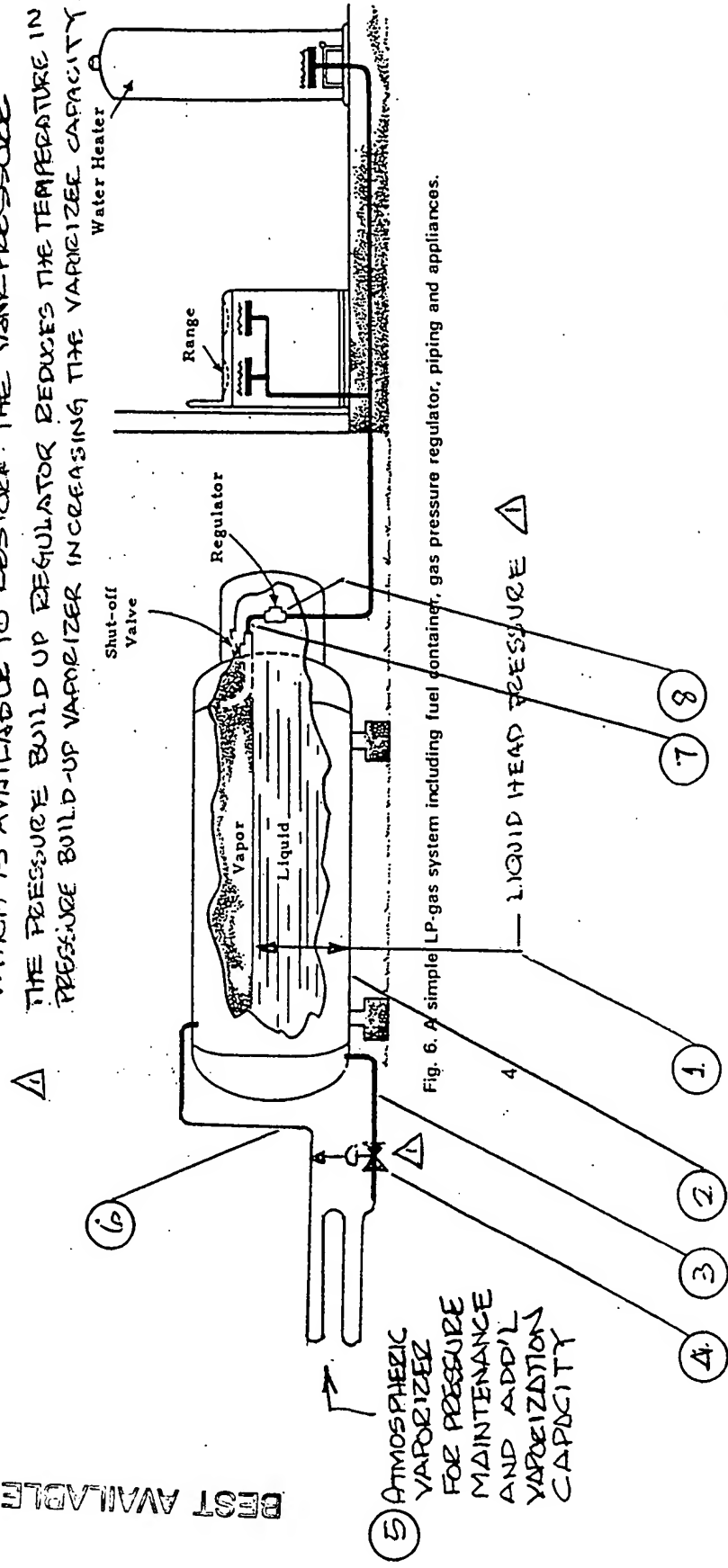
557-1P

THIS PROJECT AND/OR DATA WAS DESIGNED AND/OR DEVELOPED BY THERMAX INC. AND SHALL NOT BE USED IN ANY WAY INJURIOUS TO THE INTERESTS OF THERMAX INC.

Drwg. Sheet 2  
 (557-2P)

BEST AVAILABLE COPY

AS VAPOR IS WITHDRAWN VIA THE REGULATOR. (VAPOR PRESSURE REDUCTION) THE LIQUID IN THE TANK COOLS BELOW ATMOSPHERIC TEMPERATURE, AND THE PRESSURE IN THE TANK IS REDUCED. HEAT IS ABSORBED THROUGH THE TANK SURFACE, WHICH RESTORES THE PRESSURE AS THE LIQUID WARMS. THE ATMOSPHERIC VAPORIZER INCREASES THE AMOUNT OF HEAT WHICH IS AVAILABLE TO RESTORE THE TANK PRESSURE. THE PRESSURE BUILD-UP REGULATOR REDUCES THE TEMPERATURE IN THE PRESSURE BUILD-UP VAPORIZER INCREASING THE VAPORIZER CAPACITY.



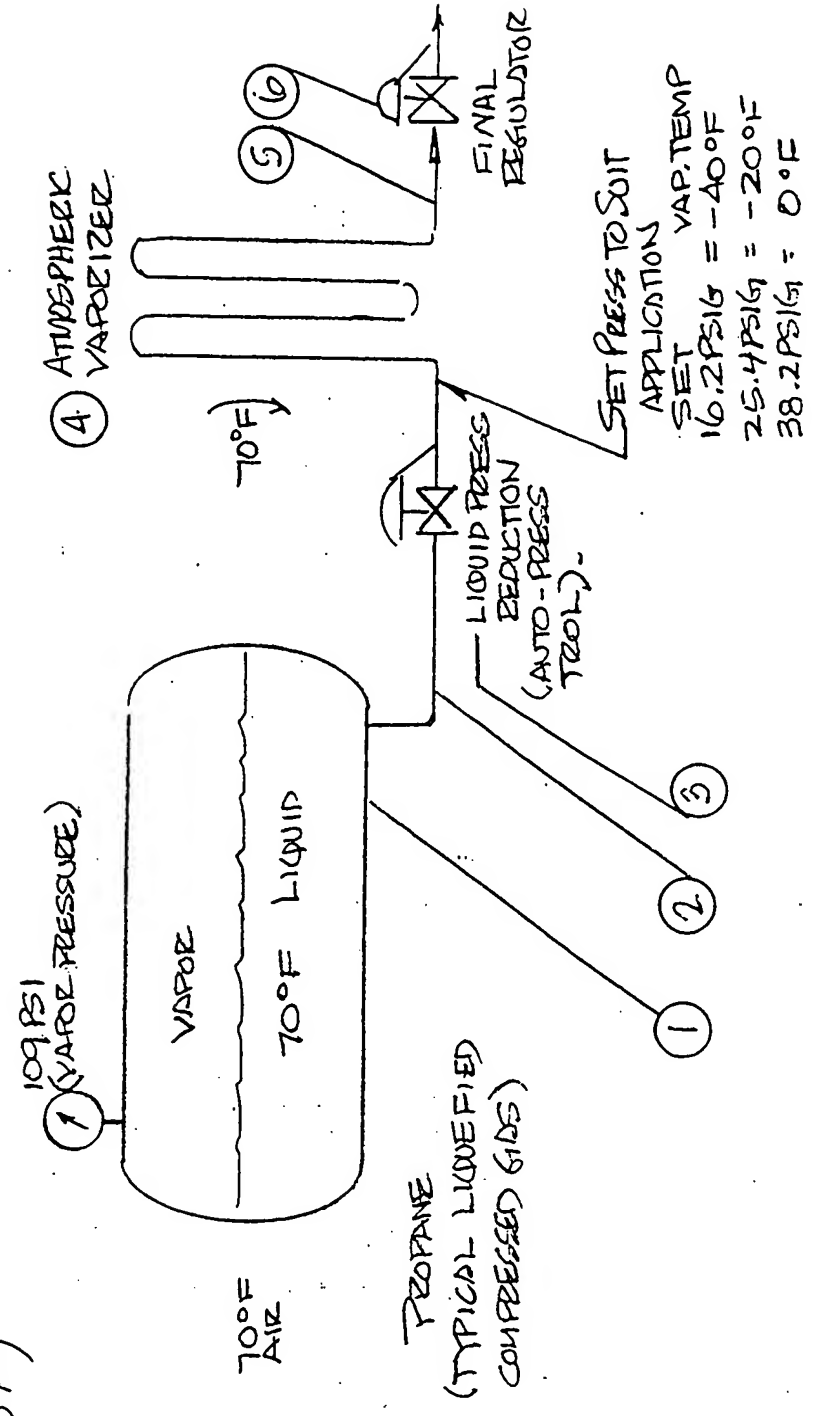
ATMOSPHERIC TEMPERATURE  
 STORAGE TANK WITH  
 AUXILIARY ATMOSPHERIC  
 VAPORIZER

**THERMAX INC.**  
 SO. DARTMOUTH, MASS.

557-2P  
 557-2P

BEST AVAILABLE COPY

Drwg. Sheet 3  
(557-3P)



PROPANE IS TYPICAL

ANY COMPRESSED-LIQUEFIED GAS IS APPLICABLE FOR THIS PROCESS

AMBIENT AIR VAPORIZATION OF  
COMPRESSED-LIQUEFIED GASES  
STORED AT AMBIENT TEMPERATURES  
USING AUTO-PRESS TROL.



**THERMAX INC.**  
SO. DARTMOUTH, MASS.

10-7-55  
ON JMD

THIS PROJECT AND/OR DATA WAS DESIGNED AND/OR DEVELOPED BY THERMAX  
AND SHALL NOT BE USED IN ANY WAY INJURIOUS TO THE INTERESTS OF THERMAX INC.

WARNING  
HANDLING PRESSURIZED, HOT, CRYOGENIC AND/OR FLAMMABLE FLUIDS AND EQUIPMENT SHOULD BE DONE ONLY BY EXPERIENCED PERSONNEL.  
REFER TO APPROPRIATE NFPA, CGA, AGA, ASME OR OTHER MANUAL A/O TECHNICAL DATA FOR REQUIRED SAFETY PROCEDURES.